

**Multimedia information transmission method for packet switched cellular radio network, by exchanging multimedia information between multimedia messaging transport protocol layer using octet stream protocol layers**

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### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
WO 200056088	A1	20000921	WO 2000FI206	A	20000315	200053	B
FI 9900586	A	20000917	FI 99586	A	19990316	200062	
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**Priority Applications (Number Kind Date): FI 99586 A ( 19990316)**

### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
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FI 9900586	A			H04L-000/00	
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BR 200009056	A			H04Q-007/22	Based on patent WO 200056088
KR 2002001774	A			H04Q-007/22	Based on patent WO 200056088
CN 1350753	A			H04Q-007/22	
JP 2002539728	W		28	H04L-029/06	Based on patent WO 200056088
US 6600732	B1			H04J-003/24	

**Abstract:**

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**NOVELTY** The multimedia messaging transport protocol layers (207,256) are defined above octet stream protocol layers (206,205) in protocol stacks. The multimedia information are exchanged between protocol layers (207,256) in respective terminal and network device, using an octet stream protocol layers (206,255) and other lower layers in the primary and secondary protocol stacks.

**DETAILED DESCRIPTION** Primary and secondary protocol stacks (201-207,251,252), for mutually exchanging information between terminal and network device, are designed for the terminal and network device, respectively. Octet stream protocol layers (206,255) in respective primary and secondary protocol stacks, are designed for transmitting unstructured octet streams. The multimedia messaging transport protocol layers (207,256) are designed above the stream protocol layers (206,255). **INDEPENDENT CLAIMS** are also included for the following:

- (a) terminal arrangement for exchanging multimedia information;
- (b) network device arrangement for exchanging multimedia information

**USE** For transmission of multimedia information including text, still images, simple graphical elements, video and audio between terminal of cellular radio network, e.g. global system for mobile telecommunications, GSM and node computer of fixed packet-switched network.

**ADVANTAGE** Since octet stream protocol (OSP) used for multimedia messaging service (MMS), does not require large amount of associated control information, protocol overheads are minimized. Does not require exhaustive respecification in the framework of existing standards and proposals. Enables distinguishing MMS traffic from other types of packet-switched information transmission.

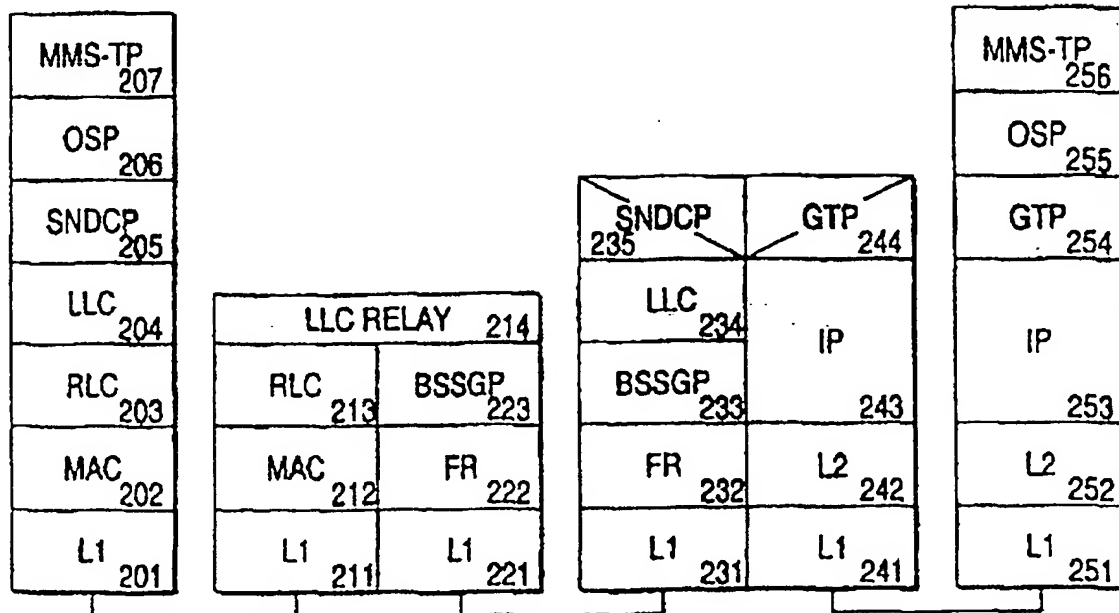
**DESCRIPTION OF DRAWING(S)** The figure shows arrangement of protocol stacks used for multimedia information transmission.

Primary and secondary protocol stacks (201-206,251,252)

Octet stream protocol layers (206,255)

Multimedia messaging transport protocol layer (256)

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